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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/455,282	12/06/1999	JOHN ANTHONY BEAVEN	UK9-99-128	4896
25259	7590	08/24/2004	EXAMINER	
IBM CORPORATION 3039 COWNALLIS RD. DEPT. T81 / B503, PO BOX 12195 REASEARCH TRIANGLE PARK, NC 27709				DINH, KHANH Q
ART UNIT		PAPER NUMBER		
2151				

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/455,282	BEAVEN ET AL.	
	Examiner	Art Unit	
	Khanh Dinh	2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 08 July 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-23 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/8/2004 has been entered.

2. Claims 1-23 are presented for examination.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Goodwin et al. (hereafter Goodwin), U.S. Pat. No. 6,199,195.

As to claim 1, Goodwin discloses an apparatus for processing business data processing activities, said apparatus comprising:

plural activity instances (creating object instances, see col.6 lines 1-51)
applied for respective uses at run time [using a data server (332 fig.3) to perform run-time object queries that are transformed to access information from enterprise resources with results instantiated between business objects generated from within the composed object service framework, see fig.3, col.6 line 64 to col.7 line 39].

a descriptor [using logical model (302 fig.3) for receiving inputs and generating unified modeling model languages] including for each said activity instance which is customizable uniquely for each said activity instance (see abstract, figs.2, 3, see col.8 lines 42-62).

wherein said descriptor includes parameters (frameworks defining a plurality of services) which are programmable at run time for determining life cycle behaviors (implementing behaviors from various object management services such as life cycle, proxy object) of each said activity instance, whereby lifecycle behavior may be customized for each activity instance at run time (using code generator to retrieve user data and from distributed data sources as objects, see col.7 lines 40-62).

As to claim 2, Goodwin discloses that the descriptor is programmable to modify said lifecycle behaviors according to a use made of said activity instance (allowing developers to define unique services and unique behaviors including life cycle that can be integrated

into an object framework, see col.7 line 38 to col.8 line 41 and col.11 line 18 to col.12 line 57).

As to claim 3, Goodwin discloses that a use made of said activity instance is responsive to a request by a client (allowing clients to query against objects services and to have returned results at run time, see col.7 lines 23-62).

As to claim 4, Goodwin discloses activity instance is responsive to a request by an activity instance (i.e., using templates to make up a system definition, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

As to claim 5, Goodwin discloses said descriptor is programmable to modify said lifecycle behaviors according to a position in a system hierarchy of said activity instance (i.e., using templates to make up a system definition and allowing developers to define unique services and unique behaviors including life cycle that can be integrated into an object framework, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

As to claim 6, Goodwin discloses said descriptor enabled to control of concurrency of activity instances [in fig.3, using model adaptors (310) to parse specific types of logical models 302, 304, 306 and translates the logical models 302, 304, 306 into unified models, see fig.3, col.13 lines 6-62].

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As to claim 7, Goodwin discloses said descriptor enabled to control of re-creation of activity instances (in fig.3, creation of unified models is performed through a common Application Program Interface including creating objects that can be traversed for user defined purposes, before the unified models are committed to the schema repository and making the unified model available for later use, see figs.3, col.7 line 7 to col.8 line 41 and col.13 lines 6-43).

As to claim 8, Goodwin discloses controlling of termination of activity instances [i.e., in fig.6, a determination is then made (Block 616) as to whether there are more classes defined by the unified model with user specified parameters, and if not, the code generator terminates (Block 618) code generation, see fig.6, col.15 lines 8-57).

As to claim 9, Goodwin discloses said descriptor to permit a creation of an activity instance identifier (i.e., automatically assign a unique object id for each new object instance, see fig.3, col.4 lines 46-63 and col.9 line 7 to col.10 line 62).

As to claim 10, Goodwin discloses a method for improving the processing business data processing activities respective of condition at run time, said method comprising the steps of:

defining activity lifecycle characteristics (creating object instances including life cycle, see col.6 lines 1-51 and col.7 lines 51-62) in descriptors (logical models 302, 302, 304 and 306 fig.3) that are customized respective of the processing of individual activity instants at *run time* applied for respective uses at run time [using a data server

(332 fig.3) to perform run-time object queries that are transformed to access information from enterprise resources with results instantiated between business objects generated from within the composed object service framework, see fig.3, col.6 line 64 to col.7 line 39].

associating such a descriptor uniquely with said respective activity instance [using logical model (302 fig.3) for receiving inputs and generating unified modeling model languages, see abstract, figs.2, 3, see col.8 lines 42-62).

using said descriptor to control a lifecycle of said activity instance, whereby runtime processing may influence life cycle definition (implementing behaviors from various object management services such as life cycle, proxy object and using code generator to retrieve user data and from distributed data sources as objects at run time, see col.7 lines 40-62).

As to claim 11, Goodwin discloses enable definition of varying activity lifecycle characteristics according to a use made of said activity instance client (allowing developers to define unique services and unique behaviors including life cycle that can be integrated into an object framework, see col.7 line 38 to col.8 line 41 and col.11 line 18 to col.12 line 57).

As to claim 12, Goodwin discloses that a use made of said activity instance is responsive to a request by a client (allowing clients to query against objects services and to have returned results at run time, see col.7 lines 23-62).

As to claim 13, Goodwin discloses activity instance is responsive to a request by an activity instance (i.e., using templates to make up a system definition, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

As to claim 14, Goodwin discloses said descriptor is programmable to modify said lifecycle behaviors according to a position in a system hierarchy of said activity instance (i.e., using templates to make up a system definition and allowing developers to define unique services and unique behaviors including life cycle that can be integrated into an object framework, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

As to claim 15, Goodwin discloses said descriptor enabled to control of concurrency of activity instances [in fig.3, using model adaptors (310) to parse specific types of logical models 302, 304, 306 and translates the logical models 302, 304, 306 into unified models, see fig.3, col.13 lines 6-62].

As to claim 16, Goodwin discloses said descriptor enabled to control of re-creation of activity instances (in fig.3, creation of unified models is performed through a common Application Program Interface including creating objects that can be traversed for user defined purposes, before the unified models are committed to the schema repository and making the unified model available for later use, see figs.3, col.7 line 7 to col.8 line 41 and col.13 lines 6-43).

As to claim 17, Goodwin discloses controlling of termination of activity instances [i.e., in fig.6, a determination is then made (Block 616) as to whether there are more classes defined by the unified model with user specified parameters, and if not, the code generator terminates (Block 618) code generation, see fig.6, col.15 lines 8-57).

As to claim 18, Goodwin discloses said descriptor to permit a creation of an activity instance identifier (i.e., automatically assign a unique object id for each new object instance, see fig.3, col.4 lines 46-63 and col.9 line 7 to col.10 line 62).

As to claim 19, Goodwin discloses a method for improving the processing business data processing activities respective of condition at run time, said method comprising the steps of:

defining activity lifecycle characteristics (creating object instances including life cycle, see col.6 lines 1-51 and col.7 lines 51-62) in descriptors (logical models 302, 302, 304 and 306 fig.3) that are customized respective of the processing of individual activity instants at *run time* applied for respective uses at run time [using a data server (332 fig.3) to perform run-time object queries that are transformed to access information from enterprise resources with results instantiated between business objects generated from within the composed object service framework, see fig.3, col.6 line 64 to col.7 line 39].

associating such a descriptor uniquely with said respective activity instance [using logical model (302 fig.3) for receiving inputs and generating unified modeling model languages, see abstract, figs.2, 3, see col.8 lines 42-62).

using said descriptor to control a lifecycle of said activity instance, whereby runtime processing may influence life cycle definition (implementing behaviors from various object management services such as life cycle, proxy object and using code generator to retrieve user data and from distributed data sources as objects at run time, see col.7 lines 40-62).

As to claim 20, Goodwin discloses enable definition of varying activity lifecycle characteristics according to a use made of said activity instance client (allowing developers to define unique services and unique behaviors including life cycle that can be integrated into an object framework, see col.7 line 38 to col.8 line 41 and col.11 line 18 to col.12 line 57).

As to claim 21, Goodwin discloses that a use made of said activity instance is responsive to a request by a client (allowing clients to query against objects services and to have returned results at run time, see col.7 lines 23-62).

As to claim 22, Goodwin discloses activity instance is responsive to a request by an activity instance (i.e., using templates to make up a system definition, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

As to claim 23, Goodwin discloses said descriptor is programmable to modify said lifecycle behaviors according to a position in a system hierarchy of said activity instance (i.e., using templates to make up a system definition and allowing developers to define

unique services and unique behaviors including life cycle that can be integrated into an object framework, see fig.3, col.7 line 7 to col.8 line 41 and col.9 line 7 to col.10 line 62).

Other prior art cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Underwood, US pat. No. 6704873: Secure gateway interconnection in an e-commerce based environment
 - b. Bowman-Amuah, US pat. No. 6640238: Activity component in a presentation services patterns environment
 - c. Bowman-Amuah, US pat. No. 6615253: Efficient server side data retrieval for execution of client side applications
 - d. Bowman-Amuah, US pat. No. 6571282 : Block-based communication in a communication services patterns environment
 - e. Fish et al., US pat. No. 5875333: a method for automatically generating source code for relating a dialog interface with a business object in a computing application.
 - f. Foley et al., US pat. No. 5706502: An Internet-enabled portfolio manager system.
 - g. Henninger et al., US pat. No. 5499371: Method and apparatus for automatic generation of object oriented code for mapping relational data to objects

Response to Arguments

6. Applicant's arguments filed on 7/8/2004 have been fully considered but they are not persuasive.

- Applicant asserts that the in the Godwin reference does not disclose running activity instances at run time.

Examiner respectfully disagrees. Examiner points out that Goodwin discloses using a data server (332 fig.3) to perform run-time object queries including object instances that are transformed to access information from enterprise resources with results instantiated between business objects generated from within the composed object service framework (see fig.3, col.6 line 64 to col.7 line 39) as rejected above.

Conclusion

7. Claims 1-23 are *rejected*.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (703) 308-8528.

The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (703) 308-8867. The fax phone number for this group is (703) 872-9306.

A shortened statutory period for reply is set to expire THREE months from the mailing date of this communication. Failure to response within the period for response

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will cause the application to become abandoned (35 U. S. C . Sect. 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(A).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305 -9600.



Khanh Dinh
Patent Examiner
Art Unit 2151
8/22/2004